

# SEQUENCE LISTING

<110> Mark Achtman  
Monique Moreau

<120> IGA1 PROTEASE FRAGMENT AS CARRIER PEPTIDE

<130> 7101/0E616US0

<140> US 09/142,970

<141> 1998-09-18

<150> EP 97100883.4

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<150> PCT/EP98/00294

<151> 1998-01-20

<160> 5

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 104

<212> PRT

<213> Neisseria meningitidis

<400> 1

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			20					25					30		
Ile	Leu	Met	Gly	Ser	Thr	Gln	Glu	Glu	Ala	Lys	Lys	Asn	Ala	Met	Asn
		35					40					45			
His	Lys	Asn	Asn	Gln	Arg	Ile	Ser	Gly	Phe	Ser	Gly	Phe	Phe	Gly	Glu
	50				55						60				
Glu	Asn	Gly	Lys	Gly	His	Asn	Gly	Ala	Leu	Asn	Leu	Asn	Phe	Asn	Gly
65					70					75				80	
Lys	Ser	Ala	Gln	Asn	Arg	Phe	Leu	Leu	Thr	Gly	Gly	Thr	Asn	Leu	Asn
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<210> 2

<211> 104

<212> PRT

<213> Neissseria meningitidis

<400> 2

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			20					25					30		
Val	Phe	Met	Gly	Tyr	Thr	Gln	Glu	Glu	Ala	Lys	Lys	Asn	Ala	Met	Asn
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His	Lys	Asn	Asn	Gln	Arg	Ile	Ser	Gly	Phe	Ser	Gly	Phe	Phe	Gly	Glu
	50				55						60				
Glu	Asn	Gly	Lys	Gly	His	Asn	Gly	Ala	Leu	Asn	Leu	Asn	Phe	Asn	Gly
65					70					75				80	
Lys	Ser	Ala	Gln	Asn	Arg	Phe	Leu	Leu	Thr	Gly	Gly	Thr	Asn	Leu	Asn
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Gly Lys Ile Ser Val Thr Gln Gly  
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<212> PRT  
<213> Neisseria meningitidis

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Val Phe Met Gly Tyr Lys Gln Glu Glu Ala Gln Lys Asn Ala Met Asn  
35 40 45  
His Lys Asn Asn Gln Arg Ile Ser Gly Phe Ser Gly Phe Phe Gly Glu  
50 55 60  
Glu Asn Gly Lys Gly His Asn Gly Ala Leu Asn Leu Asn Phe Asn Gly  
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Gly Lys Ile Ser Val Thr Gln Gly  
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<212> PRT  
<213> Neisseria gonorrhoeae

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Val Phe Met Gly Tyr Thr Gln Glu Glu Ala Arg Lys Asn Ala Met Asn  
35 40 45  
Asn Lys Asn Asn Arg Arg Ile Gly Asp Phe Gly Gly Phe Phe Asp Glu  
50 55 60  
Glu Asn Gly Lys Gly His Asn Gly Ala Leu Asn Leu Asn Phe Asn Gly  
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<212> PRT  
<213> Neisseria gonorrhoeae

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35 40 45  
His Lys Asn Asn Arg Arg Ile Gly Asp Phe Gly Gly Phe Phe Asp Glu  
50 55 60  
Glu Asn Gly Lys Gly His Asn Gly Ala Leu Asn Leu Asn Phe Asn Gly  
65 70 75 80  
Lys Ser Ala Gln Asn Arg Phe Leu Leu Thr Gly Gly Ala Asn Leu Asn  
85 90 95

Gly Lys Ile Ser Val Thr Gln Gly  
100